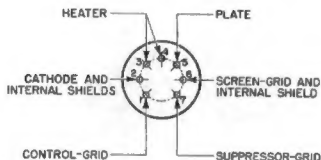
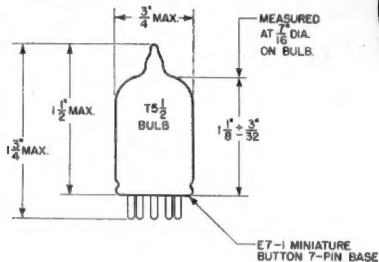


ADVANCE ELECTRON TUBE DATA SHEET

WESTERN ELECTRIC 415A ELECTRON TUBE

415A
MINIATURE
PENTODE
UHF



DESCRIPTION

Miniature Suppressor-Grid Pentode

MOUNTING

This tube may be mounted in any position.

HEATER RATING

Heater Voltage, A-C or D-C	6.3 volts
Nominal Heater Current	150 milliamperes

MAXIMUM RATINGS (Design Center Values)

Plate Voltage	180 volts
Screen-Grid Voltage	140 volts
Positive Suppressor-Grid Voltage	27 volts
Plate Dissipation	1.7 watts
Screen-Grid Dissipation	0.75 watt
Cathode Current	18 milliamperes
Heater-Cathode Voltage	90 volts
Bulb Temperature	120 centigrade

OPERATING CONDITIONS AND CHARACTERISTICS

Plate Voltage	120	120 volts
Screen-Grid Voltage	120	120 volts
Suppressor-Grid Voltage	-3	0 volts
Control-Grid Voltage	-2	-2 volts
Plate Current	3.6	5.2 milliamperes
Screen-Grid Current	4.8	3.5 milliamperes
Transconductance, Control-Grid	1850	3200 μ hos
Transconductance, Suppressor-Grid	810	470 μ hos

Western Electric

CONTROL-GRID PLATE CURRENT CUT-OFF CHARACTERISTICS

Plate Voltage	120 volts
Screen-Grid Voltage	120 volts
Suppressor-Grid Voltage	0 volts
Control-Grid Voltage (approximate) for Plate Current of 10 Microamperes	-7.5 volts

SUPPRESSOR-GRID PLATE CURRENT CUT-OFF CHARACTERISTICS

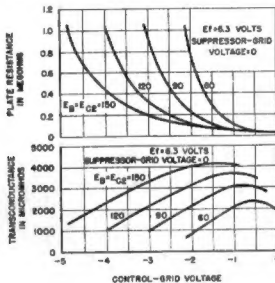
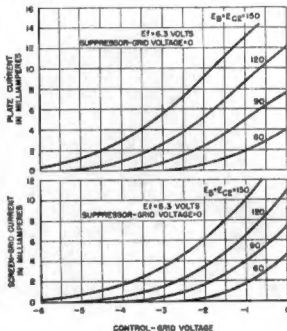
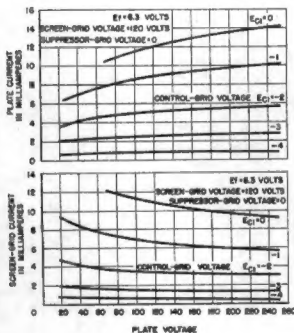
Plate Voltage	120 volts
Screen-Grid Voltage	120 volts
Control-Grid Voltage	-2 volts
Suppressor-Grid Voltage (approximate) for Plate Current of 10 Microamperes	-10 volts

INTERELECTRODE CAPACITANCES (With RMA No. 316 Shield)

Plate to Control-Grid, Maximum	*0.014 puf
Input (G1 to Heater, Cathode, G2 & G3)	*3.9 puf
Output (Plate to Heater, Cathode, G2 & G3)	*3.0 puf
Control-Grid to Suppressor-Grid	*0.1 puf

*External shield connected to cathode-pin #2.

NORMAL PENTODE CHARACTERISTICS



SUPPRESSOR-GRID CHARACTERISTICS

